

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P827178

Luminaire Tested: **OHBL-30SE-MCL-UNV-L840-CD-UPL30**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P827178  
REPORT IS A COMBINATION OF REPORTS P826282 AND G3-2310-221-4  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-30SE-MCL-UNV-L840-CD-UPL30  
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 3000 LUMEN UPLIGHT MODULE  
Light Source: -  
Ballast/Driver: -

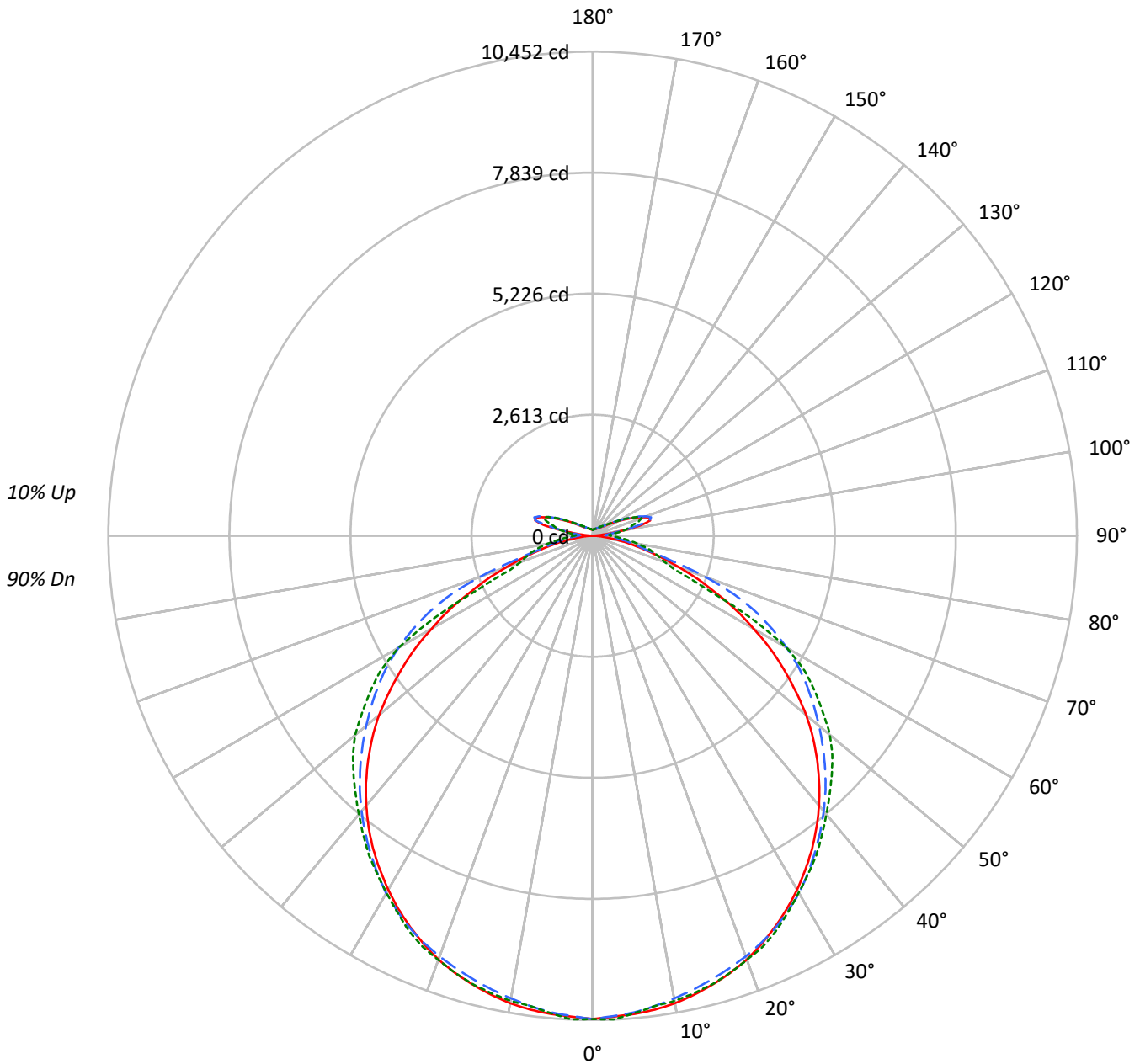
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32546.0 lumens  
Efficiency: N/A  
Efficacy: 165.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct  
  
Input Watts (W): 197.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	92	92	92	90								
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76								
2	97	89	83	77	94	87	81	76	81	76	72	77	73	69	72	69	66	63								
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54								
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46								
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40								
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35								
7	64	51	42	36	61	49	41	36	47	40	35	45	38	34	42	37	33	31								
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27								
9	55	42	34	29	53	41	34	28	39	32	28	38	31	27	36	30	26	24								
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17816	17816	17816
5°	17614	17549	17669
10°	17464	17276	17547
15°	17267	17069	17504
20°	17069	16936	17427
25°	16772	16802	17354
30°	16454	16595	17112
35°	16088	16271	17023
40°	15636	15936	16876
45°	15046	15549	16881
50°	14280	15110	16883
55°	13138	14675	16411
60°	11686	14044	15356
65°	9847	12886	9885
70°	7740	10039	7323
75°	5595	5942	7675
80°	3663	4917	7738
85°	1834	4465	8136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	983.6	3.0
10°-20°	2820.4	8.7
20°-30°	4307.6	13.2
30°-40°	5226.6	16.1
40°-50°	5478.0	16.8
50°-60°	4963.9	15.3
60°-70°	3328.1	10.2
70°-80°	1494.4	4.6
80°-90°	548.8	1.7
90°-100°	399.9	1.2
100°-110°	1147.2	3.5
110°-120°	919.7	2.8
120°-130°	437.1	1.3
130°-140°	224.3	0.7
140°-150°	132.4	0.4
150°-160°	79.1	0.2
160°-170°	42.0	0.1
170°-180°	12.9	0.0
0°-30°	8111.5	24.9
0°-40°	13338.1	41.0
0°-60°	23780.0	73.1
0°-90°	29151.3	89.6
90°-120°	2466.9	7.6
90°-150°	3260.6	10.0
90°-180°	3395.0	10.4
0°-180°	32546.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10431	10431	10431	10431	10431	
5°	10363	10399	10327	10359	10345	986
15°	10027	9988	9917	10004	10016	2831
25°	9315	9274	9339	9425	9398	4294
35°	8256	8276	8360	8449	8416	5160
45°	6852	6964	7093	7274	7297	5278
55°	5042	5285	5645	5872	5858	4501
65°	2959	3422	3885	3279	2677	2948
75°	1164	1689	1243	1272	1354	1272
85°	201	385	493	596	624	245
90°	8	169	309	381	396	17
95°	58	195	315	390	409	208
105°	1283	1322	1274	996	894	1213
115°	894	900	925	941	926	895
125°	445	459	486	479	474	416
135°	269	275	283	295	297	212
145°	200	204	209	213	214	127
155°	164	169	171	173	171	77
165°	145	146	147	149	149	41
175°	133	134	132	132	132	13
180°	130	130	130	130	130	



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CATALOG NUMBER: OHBL-30SE-MCL-UNV-L840-CD-UPL30

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10431.1	10431.1	10431.1	10431.1	10431.1
2.5°	10388.9	10432.6	10378.3	10437.1	10452.2
5°	10363.2	10399.4	10327.0	10358.7	10345.1
7.5°	10316.5	10328.5	10242.6	10268.2	10241.1
10°	10247.1	10241.1	10140.0	10189.8	10195.8
12.5°	10144.5	10126.4	10035.9	10111.4	10112.9
15°	10026.9	9987.7	9916.8	10004.3	10016.3
17.5°	9891.2	9839.9	9793.1	9906.2	9888.1
20°	9732.8	9672.5	9663.4	9787.1	9741.8
22.5°	9536.7	9490.0	9511.1	9628.7	9600.1
25°	9315.0	9274.3	9339.1	9425.1	9398.0
27.5°	9081.2	9057.1	9131.0	9197.4	9144.6
30°	8824.8	8811.2	8909.3	8963.6	8897.2
32.5°	8545.8	8550.3	8643.8	8717.7	8655.9
35°	8256.2	8275.8	8360.3	8449.3	8416.1
37.5°	7938.0	7981.7	8066.2	8167.2	8132.5
40°	7601.6	7665.0	7758.5	7880.6	7849.0
42.5°	7238.1	7318.1	7438.7	7574.5	7571.5
45°	6852.0	6963.6	7093.3	7274.3	7297.0
47.5°	6450.8	6576.0	6740.4	6981.7	7016.4
50°	6014.9	6171.8	6376.9	6666.5	6687.6
52.5°	5529.3	5743.4	6014.9	6292.5	6266.8
55°	5042.1	5284.9	5645.4	5871.6	5858.1
57.5°	4556.4	4829.4	5266.8	5428.2	5426.7
60°	4013.5	4358.9	4837.0	4959.2	4838.5
62.5°	3511.2	3882.3	4378.5	4289.5	3876.2
65°	2959.2	3422.2	3885.3	3279.0	2677.2
67.5°	2469.0	2951.7	3300.1	2245.8	1923.0
70°	1975.8	2508.2	2573.1	1666.6	1644.0
72.5°	1538.4	2105.5	1775.2	1426.8	1499.2
75°	1164.4	1689.2	1242.8	1271.5	1354.4
77.5°	849.1	1297.1	966.8	1114.6	1182.5
80°	583.7	918.5	788.8	936.6	983.4
82.5°	366.5	606.3	632.0	754.1	802.4
85°	200.6	384.6	493.2	595.8	624.4
87.5°	83.0	232.3	377.1	460.0	484.2
90°	8.5	169.2	308.9	380.8	395.8
92.5°	22.5	149.0	274.1	338.9	351.5
95°	58.5	194.9	315.0	389.7	408.7
97.5°	351.0	409.3	446.3	525.5	570.5
100°	691.5	778.8	663.2	697.8	707.3
102.5°	1090.0	1146.2	964.6	837.7	812.2
105°	1283.0	1321.7	1274.0	996.1	893.6



TEST NUMBER: P827178

CATALOG NUMBER: OHBL-30SE-MCL-UNV-L840-CD-UPL30

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1034.6	1053.1	1084.3	1084.9	1063.9
115°	894.1	900.1	924.7	940.8	925.8
117.5°	756.1	764.1	788.7	789.8	784.8
120°	638.1	648.6	666.2	667.7	661.2
122.5°	535.1	550.1	571.7	568.2	560.7
125°	444.6	459.1	486.1	478.7	474.2
127.5°	380.1	389.1	410.1	413.7	410.2
130°	329.1	338.6	356.1	364.1	363.1
132.5°	295.6	304.1	315.6	324.6	323.6
135°	268.6	275.1	282.6	295.1	296.6
137.5°	246.1	253.1	258.1	269.6	271.1
140°	229.1	234.1	237.6	245.6	248.1
142.5°	212.6	218.1	221.6	228.1	230.6
145°	199.6	204.1	209.1	212.6	214.1
147.5°	189.1	193.1	197.1	199.1	200.6
150°	180.1	183.1	187.1	188.1	189.1
152.5°	172.1	174.1	177.1	179.1	179.1
155°	164.1	168.6	170.6	172.6	171.1
157.5°	158.1	161.6	163.6	164.6	165.6
160°	153.1	155.6	157.6	158.6	159.6
162.5°	148.6	150.6	151.6	152.6	153.6
165°	144.6	145.6	146.6	148.6	148.6
167.5°	140.6	143.1	142.6	143.6	143.6
170°	137.6	138.6	139.6	138.1	138.1
172.5°	134.6	135.6	136.6	135.1	135.1
175°	132.6	133.6	132.1	131.6	131.6
177.5°	133.1	132.6	131.1	129.6	129.1
180°	130.1	130.1	130.1	130.1	130.1



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	1283.5	1322.7	1320.9	1181.0	1044.0
110°	1179.0	1215.1	1227.8	1190.4	1123.4



(END OF REPORT)